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## DATASHEET

Citrinin

### Product overview

<b>Name</b>	Citrinin
<b>Cat No</b>	HB3839
<b>Purity</b>	>97%
<b>Description</b>	Mitochondrial permeability transition pore (MPTP) activator

### Biological Data

<b>Biological description</b>	Antibiotic. Antiprotozoal. Antimicrobial. Cytotoxic and genotoxic in various mammalian cells. Mitochondrial permeability transition pore (MPTP) activator. Apoptosis inducer. ERK and JNK signaling pathways activator. Nephrotoxic mycotoxin. Suppresses NO and iNOS expression via inhibition of the JAK/STAT-1alpha and NF-kappaB signaling pathways. Tubulin polymerization and mitotic spindle assembly inhibitor. Increases reactive oxygen species (ROS). Induces cell cycle arrest at the G0/G1 and G2/M phase.
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### Solubility & Handling

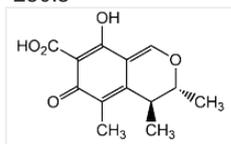
<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in methanol and ethanol
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

**Chemical name** (3R,4S)-6-Hydroxy-3,4,5-trimethyl-8-oxo-3,4-dihydroisochromene-7-carboxylic acid

**Molecular Weight**  
**Chemical structure**

250.3



**Molecular Formula**  
**CAS Number**  
**PubChem identifier**  
**SMILES**  
**Source**  
**InChiKey**  
**Appearance**

C<sub>13</sub>H<sub>14</sub>O<sub>5</sub>

518-75-2

54682830

C[C@H]1OC=C2C(=O)C(=C(O)O)C(=O)C(=C2[C@@H]1C)C

Isolated from *Penicillium citrinum*

CQUIKKVOEOPUDV-IYSWYEEDSA-N

Yellow solid